Listing of Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

- 1.-30. (Canceled)
- 31. (Previously presented): An isolated and essentially homogenous polypeptide having the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 32. (Previously presented): An isolated and essentially homogenous polypeptide having cellulase activity and an amino acid sequence which has at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 33. (Previously presented): An isolated and essentially homogenous polypeptide having cellulase activity and amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 34. (Previously presented): An isolated and essentially homogenous polypeptide having cellulase activity and an amino acid sequence which has at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.

- 35. (Previously presented): An enzyme extract preparation comprising a polypeptide having cellulase activity, wherein said polypeptide is selected from the group consisting of:
- (i) a polypeptide comprising the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,
- (ii) a polypeptide having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,
- (iii) a polypeptide comprising the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011,
- (iv) a polypeptide comprising amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (v) a polypeptide having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 36. (Previously presented): An enzyme extract preparation according to claim 35, wherein said polypeptide comprises the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 37. (Previously presented): An enzyme extract preparation according to claim 35, wherein said polypeptide has at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.

- 38. (Previously presented): An enzyme extract preparation according to claim 35, wherein said polypeptide comprises the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011.
- 39. (Previously presented): An enzyme extract preparation according to claim 35, wherein said polypeptide comprises amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 40. (Previously presented): An enzyme extract preparation according to claim 35, wherein said polypeptide has at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 41. (Previously presented): An enzyme extract preparation according to claim 35, wherein said enzyme extract preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid molecule comprising the nucleic acid sequence set forth in Figures 23A-C and SEQ ID NO: 34; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 42. (Previously presented): An enzyme extract preparation according to claim 35, wherein said enzyme extract preparation is obtained by a process comprising:

- (i) culturing a host cell transformed with a nucleic acid sequence encoding a polypeptide having cellulase activity and 95% identity to amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 43. (Previously presented): An enzyme extract preparation according to claim 35, wherein said enzyme extract preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with a nucleic acid sequence encoding amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 44. (Previously presented): An enzyme extract preparation according to claim 35, wherein said enzyme extract preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with a nucleic acid sequence encoding a polypeptide having cellulase activity and at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.

- 45. (Previously presented): An enzyme extract preparation according to claim 35, wherein said polypeptide is isolated and essentially homogenous.
- 46. (Previously presented): An enzyme extract preparation according to claim 35, wherein said enzyme extract preparation has cellulase activity and comprises at least one cellulase of a fungal species belonging to a fungal genus selected from the group consisting of *Melanocarpus* and *Myriococcum*.
- 47. (Previously presented): An enzyme extract preparation having cellulase activity according to claim 46, wherein the fungal species is *Melanocarpus albomyces*, *Myriococcum albomyces* or *Myriococcum* sp. species represented by CBS 687.95.
- 48. (Previously presented): An enzyme extract preparation having cellulase activity according to claim 47, wherein the fungus is *Melanocarpus albomyces*, *Myriococcum albomyces* CBS 685.95 or *Myriococcum* sp. CBS 687.95.
- 49. (Previously presented): An enzyme extract preparation according to claim 35, wherein the enzyme extract preparation is liquid and has cellulase activity.
- 50. (Previously presented): An enzyme extract preparation according to claim 35, wherein the enzyme extract preparation is dry and has cellulase activity.

- 51. (Previously presented): An enzyme extract preparation according to claim 35, wherein the enzyme extract preparation has cellulase activity and further comprises a surface active agent.
- 52. (Previously presented): A method for biostoning comprising adding an enzyme preparation comprising a polypeptide having cellulase activity to cotton containing fabric or garments, wherein said polypeptide is selected from the group consisting of:
- (i) a polypeptide comprising the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,
- (ii) a polypeptide having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,
- (iii) a polypeptide comprising the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011,
- (iv) a polypeptide comprising amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (v) a polypeptide having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 53. (Previously presented): A method according to claim 52, wherein said polypeptide comprises the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.

- 54. (Previously presented): A method according to claim 52, wherein said polypeptide has at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 55. (Previously presented): A method according to claim 52, wherein said polypeptide comprises the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011.
- 56. (Previously presented): A method according to claim 52, wherein said polypeptide comprises amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 57. (Previously presented): A method according to claim 52, wherein said polypeptide has at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 58. (Previously presented): A method according to claim 52, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid molecule comprising the sequence set forth in Figures 23A-C and SEQ ID NO: 34; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.

- 59. (Previously presented): A method according to claim 52, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding a cellulase having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 60. (Previously presented): A method according to claim 52, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 61. (Previously presented): A method according to claim 52, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding a cellulase having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.

- 62. (Original): A method according to claim 52, wherein said polypeptide is isolated and essentially homogenous.
- 63. (Previously presented): A method according to claim 52, wherein said enzyme preparation comprises at least one cellulase of a fungal species belonging to a fungal genus selected from the group consisting of *Melanocarpus* and *Myriococcum*.
- 64. (Previously presented): A method of claim 63, wherein the fungal species is *Melanocarpus albomyces*, *Myriococcum albomyces* or *Myriococcum* sp. species represented by CBS 687.95.
- 65. (Previously presented): A method of claim 64, wherein the fungus is *Melanocarpus albomyces*, *Myriococcum albomyces* CBS 685.95 or *Myriococcum* sp. CBS 687.95.
- 66. (Original): A method according to claim 52, wherein the enzyme preparation is liquid.
- 67. (Original): A method according to claim 52, wherein the enzyme preparation is dry.

- 68. (Original): A method according to claim 52, wherein the fabric or garments is denim.
- 69. (Original): A method according to claim 52, wherein the enzyme preparation further comprises a surface active agent.
- 70. (Previously presented): A method for biofinishing comprising adding an enzyme preparation comprising a polypeptide having cellulase activity to textile materials such as fabrics, garments or yarns, wherein said polypeptide is selected from the group consisting of:
- (i) a polypeptide comprising the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,
- (ii) a polypeptide having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,
- (iii) a polypeptide comprising the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011,
- (iv) a polypeptide comprising amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (v) a polypeptide having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.

- 71. (Previously presented): A method according to claim 70, wherein said polypeptide comprises the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 72. (Previously presented): A method according to claim 70, wherein said polypeptide has at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 73. (Previously presented): A method according to claim 70, wherein said polypeptide comprises the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011.
- 74. (Previously presented): A method according to claim 70, wherein said polypeptide comprises amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 75. (Previously presented): A method according to claim 70, wherein said polypeptide has at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 76. (Previously presented): A method according to claim 70, wherein said enzyme preparation is obtained by a process comprising:

- (i) culturing a host cell transformed with the nucleic acid molecule comprising the sequence set forth in Figures 23A-C and SEQ ID NO: 34; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 77. (Previously presented): A method according to claim 70, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding a cellulase having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 78. (Previously presented): A method according to claim 70, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 79. (Previously presented): A method according to claim 70, wherein said enzyme preparation is obtained by a process comprising:

- (i) culturing a host cell transformed with the nucleic acid sequence encoding a cellulase having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 80. (Original): A method according to claim 70, wherein said polypeptide is isolated and essentially homogenous.
- 81. (Previously presented): A method according to claim 70, wherein said enzyme preparation comprises at least one cellulase of a fungal species belonging to a fungal genus selected from the group consisting of *Melanocarpus* and *Myriococcum*.
- 82. (Previously presented): A method of claim 81, wherein the fungal species is *Melanocarpus albomyces*, *Myriococcum albomyces* or *Myriococcum* sp. species represented by CBS 687.95.
- 83. (Previously presented): A method of claim 82, wherein the fungus is Melanocarpus albomyces, Myriococcum albomyces CBS 685.95, or Myriococcum sp. CBS 687.95.
- 84. (Original): A method according to claim 70, wherein the enzyme preparation is liquid.

- 85. (Original): A method according to claim 70, wherein the enzyme preparation is dry.
- 86. (Original): A method according to claim 70, wherein the textile materials are manufactured of natural cellulose containing fibers or manmade cellulose containing fibers or are mixtures thereof.
- 87. (Original): A method according to claim 70, wherein the textile materials are blends of synthetic fibers and cellulose containing fibers.
- 88. (Original): A method according to claim 70, wherein the enzyme preparation further comprises a surface active agent.
- 89. (Previously presented): A method for treating wood-derived pulp or fiber, comprising adding an enzyme preparation comprising a polypeptide having cellulase activity to wood-derived mechanical or chemical pulp or secondary fiber, wherein said polypeptide is selected from the group consisting of:
- (i) a polypeptide comprising the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,
- (ii) a polypeptide having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,

- (iii) a polypeptide comprising the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011,
- (iv) a polypeptide comprising amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (v) a polypeptide having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 90. (Previously presented): A method according to claim 89, wherein said polypeptide comprises the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 91. (Previously presented): A method according to claim 89, wherein said polypeptide has at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 92. (Previously presented): A method according to claim 89, wherein said polypeptide comprises the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011.
- 93. (Previously presented): A method according to claim 89, wherein said polypeptide comprises amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.

- 94. (Previously presented): A method according to claim 89, wherein said polypeptide has at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 95. (Previously presented): A method according to claim 89, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid molecule comprising the sequence set forth in Figures 23A-C and SEQ ID NO: 34; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 96. (Previously presented): A method according to claim 89, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding a cellulase having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 97. (Previously presented): A method according to claim 89, wherein said enzyme preparation is obtained by a process comprising:

- (i) culturing a host cell transformed with the nucleic acid sequence encoding amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 98. (Previously presented): A method according to claim 89, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding a cellulase having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 99. (Original): A method according to claim 89, wherein said polypeptide is isolated and essentially homogenous.
- 100. (Previously presented): A method according to claim 89, wherein said enzyme preparation comprises at least one cellulase of a fungal species belonging to a fungal genus selected from the group consisting of *Melanocarpus* and *Myriococcum*.

- 101. (Previously presented): A method of claim 100, wherein the fungal species is *Melanocarpus albomyces*, *Myriococcum albomyces* or *Myriococcum* sp. species represented by CBS 687.95.
- 102. (Previously presented): A method of claim 101, wherein the fungus is *Melanocarpus albomyces*, *Myriococcum albomyces* CBS 685.95 or *Myriococcum* sp. CBS 687.95.
- 103. (Original): A method according to claim 89, wherein the enzyme preparation is liquid.
- 104. (Original): A method according to claim 89, wherein the enzyme preparation is dry.
- 105. (Original): A method according to claim 89, wherein the enzyme preparation further comprises a surface active agent.
- 106. (Previously presented): A method for improving the quality of animal feed, comprising treating plant material with an enzyme preparation comprising a polypeptide having cellulase activity, wherein said polypeptide is selected from the group consisting of:
- (i) a polypeptide comprising the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,

- (ii) a polypeptide having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35,
- (iii) a polypeptide comprising the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011,
- (iv) a polypeptide comprising amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (v) a polypeptide having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 107. (Previously presented): A method according to claim 106, wherein said polypeptide comprises the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 108. (Previously presented): A method according to claim 106, wherein said polypeptide has at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 109. (Previously presented): A method according to claim 106, wherein said polypeptide comprises the amino acid sequence encoded by the DNA insert contained in DSM 11026, DSM 11013, or DSM 11011.

- 110. (Previously presented): A method according to claim 106, wherein said polypeptide comprises amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 111. (Previously presented): A method according to claim 106, wherein said polypeptide has at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35.
- 112. (Previously presented): A method according to claim 106, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid molecule comprising sequence set forth in Figures 23A-C and SEQ ID NO: 34; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 113. (Previously presented): A method according to claim 106, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding a cellulase having at least 95% identity to the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.

- 114. (Previously presented): A method according to claim 106, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 115. (Previously presented): A method according to claim 106, wherein said enzyme preparation is obtained by a process comprising:
- (i) culturing a host cell transformed with the nucleic acid sequence encoding a cellulase having at least 95% identity to amino acids 23-452 of the amino acid sequence set forth in Figures 23A-C and SEQ ID NO: 35; and
- (ii) separating said host cell from the culture medium and obtaining the supernatant having cellulase activity.
- 116. (Original): A method according to claim 106, wherein said polypeptide is isolated and essentially homogenous.
- 117. (Previously presented): A method according to claim 106, wherein said enzyme preparation comprises at least one cellulase of a fungal species belonging to a fungal genus selected from the group consisting of *Melanocarpus* and *Myriococcum*.

- 118. (Previously presented): A method of claim 117, wherein the fungal species is *Melanocarpus albomyces*, *Myriococcum albomyces* or *Myriococcum* sp. species represented by CBS 687.95.
- 119. (Previously presented): A method of claim 118, wherein the fungus is *Melanocarpus albomyces*, *Myriococcum albomyces* CBS 685.95 or *Myriococcum* sp. CBS 687.95.
- 120. (Original): A method according to claim 106, wherein the enzyme preparation is liquid.
- 121. (Original): A method according to claim 106, wherein the enzyme preparation is dry.
- 122. (Previously presented): A method according to claim 106, wherein the enzyme preparation further comprises a surface active agent.